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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/361,478	07/26/1999	J. WALLACE PARCE	CALPP001X1	5568
26541	7590	05/07/2004	EXAMINER	
RITTER, LANG & KAPLAN 12930 SARATOGA AE. SUITE D1 SARATOGA, CA 95070			TSAI, CAROL S W	
			ART UNIT	PAPER NUMBER
			2857	

DATE MAILED: 05/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/361,478

Applicant(s)

PARCE ET AL.

Examiner

Carol S Tsai

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 1-5 of Applicants' "REQUEST FOR RECONSIDERATION D", filed 4/15/2004, with respect to the rejection(s) of claim(s) 1 and 3-16 under U.S.C. 102(e) as being anticipated by U. S. Patent No. 6,366,924 to Parce have been fully considered and are persuasive. Therefore, the Final rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the newly cited pregrant publication 2004/0063162 to Dunlay et al.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 and 3-15 are rejected under 35 U.S.C. 102(e) as being anticipated by U. S. Publication 2004/0063162 to Dunlay et al.

Dunlay et al. disclose With respect to claims 1 and 12, Dunlay et al. disclose a computer implemented method of controlling an analytical instrument that analyzes microfluidic devices comprising: receiving a sequence of steps, each step specifying at least one well of a microfluidic

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device, a value indicative of a driving force to be applied to fluid in at least one well and a duration for applying the driving force specified by the value to the fluid in the at least one well (see Fig. 11 and paragraphs 0076, 0077, 0138-0140, and 0144); for each step, applying the driving force specified by the value to the fluid in the at least one well (see Fig. 11 and paragraphs 0076, 0077, 0092 and 0144); and scanning fluid as it passes a detection zone in the microfluidic device (see paragraphs 0076, 0104-0106, 0144, and 0145).

As to claim 14, Dunlay et al. also disclose a system, comprising: an instrument that controls and analyzes a microfluidic device (see Fig. 6 and paragraphs 0083-0087); a computer (PC 11 shown on Fig. 1) including a processor and a computer readable medium, the computer being capable of directing the instrument to apply a driving force to fluid in wells of the microfluidic device (see paragraph 0075-0078); and code stored on the computer readable medium that includes a sequence of steps, each step specifying at least one well of a microfluidic device, a value indicative of the driving force to be applied to fluid in the at least one well and a duration for applying the driving force specified by the value to the fluid in the at least one well ((see Fig. 11 and paragraphs 0075-0078, 0138-0140, and 0144)).

As to claims 3 and 4, Dunlay et al. do not disclose expressly a current/voltage to be applied to the fluid in the at least one well.

It is, however, considered inherent that Dunlay et al. apply a current/voltage to the fluid in the at least one well (see paragraph 0076), because a power input, either line AC current and/or low voltage DC current can be provided by the power supply in order to drive fluid flow.

As to claims 5 and 6, Dunlay et al. also disclose a pressure to be applied to the fluid in the at least one well (see paragraph 0092).

As to claims 7-10, Dunlay et al. also disclose loading a sample to a main channel in the microfluidic device and running the sample through the main channel past the detection zone (see paragraphs 0095, 0105, and 0106).

As to claims 11, 13, and 15, Dunlay et al. also disclose the sequence of steps storing on a computer readable medium and the computer readable medium being selected from the group consisting of a memory, hard disk, floppy, CD-ROM, tape, and data signal embodied on a carrier wave (see paragraphs 0035 and 0075).

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. W. Tsai whose telephone number is (571) 272-2224. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571) 272-2216. The fax number for TC 2800 is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2800 receptionist whose telephone number is (571) 272-1585 or (571) 272-2800.

In order to reduce pendency and avoid potential delays, Group 2800 is encouraging FAXing of responses to Office actions directly into the Group at (703) 872-9306. This practice may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a PTO deposit account. Please identify the

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examiner and art unit at the top of your cover sheet. Papers submitted via FAX into Group 2800 will be promptly forwarded to the examiner.

A handwritten signature in black ink, appearing to read 'Carol S. W. Tsai'.

Carol S. W. Tsai
Patent Examiner
Art Unit 2857

04/30/04